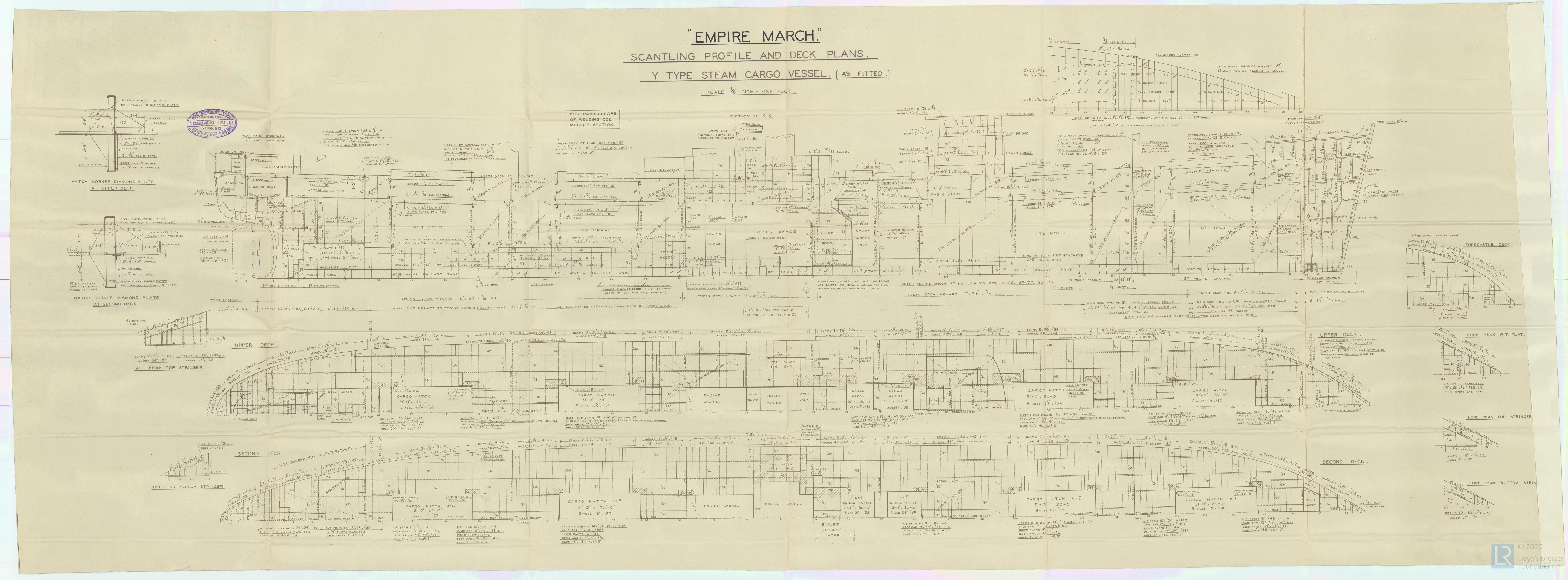


Popise march: Spicial to 167743. Messro Vickers armstrongo 788 Profile and Decko- as fitted.

Barrow Report ho 2885.





Empire march: Official to 167743.

Mesors Vickers armstrongs 788

Midship Pection - as fitted

Barrow Report to 2885



EMPIRE MARCH. FORE CASTLE. TYPE STEAM CARGO VESSEL. STRINGER PLATE "36 BUTTS WELDED. STRINGER ANGLE 31/2" x 31/2" x "375. DECK PLATING "32 UNSHEATHED BUTTS WELDED. MIDSHIP SECTION. (AS FITTED) SIDE PLATING "40. IR SEAMS BUTTS WELDED. LINE OF ENGINE AND BEAMS ON EVERY FRAME SEE PROFILE. BOILER CASING. SCALE 2 INCH = ONE FOOT UPPER SURFACES OF THE UPPER DECK, SECOND DECK AND TANK TOP NOT COATED WITH ANY MATERIAL BULWARK YERTICAL FRS. 59-113 PLATE ". 28 WITH 6" x 31/2" x "35 B.A. CLASS 100 AT WITH FREEBOARD LLOYDS SPECIAL SURVEY. RAIL HOOKED. STIFFRS. 3"x "375 O.A. 425'-0" B.P. ON L.W.L. OF 24'-7'/2" x 56'-0" MLD. 56'-3 EXT. x 27'-9" MLD. TO 2ND DECK 36'-10" MLD. TO UPPER DECK. STRINGER PLATE. STAYS 8" x 150 B.P. THE SCANTLINGS ARE SUITABLE FOR A DRAUGHT 18" IN EXCESS OF THAT CORRESPONDING TO THE FREEBOARD. 66" x "66 FOR 1/2 LENGTH Q WHICH COULD BE ASSIGNED TO A COMPLETE SUPERSTRUCTURE VESSEL WITH A TONNAGE OPENING FITTED. PPER DECK PLATING INSIDE OPENINGS 40 42 AT ENDS. BUTTS WELDED FOR 1/2 LENGTH W TO "36 AT ENDS "63 ABREAST STRINGER ANGLE 6" x 6" x 78"

FOR 1/2 LENGTH TO 6" x 6" x ".50 THE SCANTLINGS OF ANGLE, BULB ANGLE AND CHANNEL SECTIONS GIVEN ON THIS PLAN ARE 1-0" OPENINGS "59 ABREAST 18-0" OPENINGS N.B.S. AND ARE IN ACCORDANCE WITH THE EMERGENCY PROGRAMME LIST. "36 AT ENDS. BUTTS WELDED. AT ENDS. SEE DECK PLAN FOR SEE PROFILE FOR HATCH WEBS. INCREASED STRINGER. HATCH END PLATE BUTT. LLOYDS NUMERALS. 3"x 3"x 3/8" FIRST LONGITUDINAL NUMBER LXD = 425-0" x 35.75 TRIPPING BRACKET. 14" CAMBER WELDED TO DECK . SECOND LONGITUDINAL NUMBER Lx (B+D) = 425'-0"x (56'-0" + 35.75) = 38993.75 ON 56'-0" 12" TUMBLE HOME 7D TO UPPER DECK = 425-0" ÷ 36.83 D MOULDED DEPTH = 27.75 + 8! - 0" d = 36.75 - (9! - 0 + 3! - 7") - 3" FOR HIGHER BKT. d AT HALF LENGTH FORWARD. AT UPPER DECK. NO RIDER FITTED IN WAY OF GUSSET PLATE. 2-3/4 RIVETS. HATCH COAMING. EQUIPMENT NUMBER. LIN UPPER DECK BEAMS ON EVERY FRAME SECOND LONGITUDINAL NUMBER = 425'-0" x (56'-0" + 36.75) BEAM KNEES. THROUGH BEAMS 10"x 31/2" x "437 B.A. THRO. BEAMS 30"DEEP x 46 58" x "69 FOR 1/2 LENGTH 0 TO "46 FORECASTLE = 40'-0" × 7.5 × 3/4 = 225.00 HALF BEAMS 8"x 31/2"x "35 B.A. 24" LAP TO BEAM. 7-78" RIVS MIDSHIP ACCOMMODATION & CASING = 72.25 x 8'-0" x 1/2 "26 CENTRE DIVISION AT ENDS. BUTTS WELDED. = 289.00 FOR REINFORCED HATCH END BEAMS AND EACH ARM. HALF BEAMS 221/2 DEEPX SALOON ACCOMMODATION = 301-9" x 7.5 x /2. STIFFR5/ 5"x 3"x 3/8" O.A. = 115.00 "46. 17" LAP TO BEAM. 5-78" RIVS. BEAMS AT ENDS SEE PROFILE & DECK PLAN FITTED ON ALTERNATE FRS EACH ARM. KNEES 24" DEEP ON 8" EQUIPMENT NUMBER = 40047.75 SEE PROFILE & DECK PLAN. B.A. FRAME IN COAL BUNKERS. 17" LAP LINE OF BOILER CASING TO BEAM. 5-78" RIVETS EACH ARM. FR. 77 TO 8" AFT OF FR.83 PORT 2 BOWER ANCHORS 68 CWTS EACH STOCKLESS. FR.77 TO FR. 82 STARBD. STRINGER PLATE:-DISPENSED WITH AS A WAR MEASURE | BOWER ANCHOR 58/2 CWTS. 2"x "40 FOR 1/2 LENGTH Q "34 AT ENDS I STREAM ANCHOR 19 CWTS. EX - STOCK. SECOND DECK PLATING 36 FOR 1/2 LENGTH W BUTTS WELDED. 225 FATHOMS 25/16" STUD CHAIN CABLE 600 CWTS. (RULE 270 FATHOMS) K OUT ABREAST OPENINGS 34 INSIDE LINE EQUIPMENT IN ACCORDANCE 3"x"40 FLAT FITTED ABOUT I" FROM 90 FATHOMS 5" FLEXIBLE STEEL WIRE 6/12 OF OPENINGS "30 AT ENDS. BUTTS WELDED. WITH WAR REQUIREMENT. 58" x 64 FOR 1/2 LENGTH 00 TO 46 FACE OF FRAMES LIGHT CONTINUOUS 120 FATHOMS 43/4" SPECIAL FLEXIBLE STEEL WIRE 6/24 WELD TO DECK. AT ENDS. BUTTS WELDED. 2 HAWSERS 90 FATHOMS 23/4" FLEXIBLE STEEL WIRE 6/12 9" B.A. COAMING HATCH END PLATE BUTT. 2 WARPS 90 FATHOMS 21/2" FLEXIBLE STEEL WIRE 6/12. CEMENT. 14"CAMBER. 2R 5/4 RIVETS IN FRAMES TO FLOORS AND CROSS TIE PLATES IN AFT PEAK SPACED 5 DIAS. APART CR. TO CR. STRINGER PLATE. LIGHT CONTINUOUS 7/8 DIA. RIVETS IN FRAMES TO SHELL AT FLAT OF DOUBLE BOTTOM, FORWARD HALF LENGTH FORWARD SPACED 5/2 DIAS. (TWO ROWS) WELD TO SHELL. 3/4" DIA. RIVETS IN FRAMES TO FLOORS AT FLAT OF DOUBLE BOTTOM FORWARD HALF LENGTH FORWARD SPACED 61/2 DIAS. (TWO ROWS.) 5-3/4" RIVETS. 15"SCARPH. RIVETS IN SIDE FRAMES TO SHELL SPACED G/2 DIAS. APART. 51/2 DIAS. APART IN WAY OF FORE & AFT PEAK RIDER. GUSSET PLATE RIDER. TANKS AND DEEP FRAMING FORWARD. TRIPPING BRACKETS. RIVETS IN BOTTOM FRAMES TO SHELL AFT HALF LENGTH FORWARD 7 DIAS. APART CR. TO CR. 10-8 RIVETS RIVETS IN SEAMS OF SHELL PLATING DECK PLATING AND INNER BOTTOM PLATING AS PER TABLE 40 HATCH END STRONG BEAM. SECOND DECK BEAMS ON EVERY FRAME THROUGH BEAMS 12" x "45 B.A. 78"x "62 FOR 1/2 LENGTH Q TO "46 BULKHEAD TO BULKHEAD SPACED 41/2 DIAS. APART CR. TO CR. BULKHEAD CLEAR HALF BEAMS 9"x 31/2" x "375 B.A. AT ENDS. BUTTS WELDED. OF STIFFENERS. RIVETS IN FLAT KEEL ANGLES. VERTICAL ANGLES CONNECTING FLOORS TO CENTRE GIRDER AND SHELL FLANGE BEAM KNEES.

TO 142 FRAME 41-0" DEEP X FOR REINFORCE HATCH END BEAMS AND OF WATERTIGHT BULKHEAD FRAME SPACED 5 DIAS. APART CR. TO CR. BEAMS AT ENDS SEE PROFILE & DECK PLAN. RIVETS IN FRAMES TO FLOORS AFT HALF LENGTH FORWARD REVERSE FRAMES TO FLOORS AND INNER BOTTOM PLATING. "40 WITH Z 1/2" FLANGE. VERTICAL ANGLES TO FLOORS AND SIDE GIRDERS IN BULKHEAD STIFFENERS (EXCEPT PEAK BULKHEADS) AND IN 2'-3" LAP TO BEAM. WHERE REVERSE FITTED ON B.A. FRAME DECK PLATING TO BEAMS ON EVERY FRAME SPACED 7 DIAS. APART CR. TO CR. 8-78 RIVETS TO BEAM. AFT OF 152 FRAME LAP TO BEAM RIVETS IN CENTRE GIRDER TOP ANGLES BOTH FLANGES SPACED 7 DIAS. APART CR. TO CR. NON-WATERTIGHT 10-78 RIVETS TO FRAME. KNEE IS 21" 5 DIAS. IN WAY OF CENTRE LINE BULKHEAD. SIDE FRAMING. FRAMES 142 TO 152 KNEES 50" RIVETS IN CENTRE GIRDER TOP ANGLES BOTH FLANGES SPACED 5 DIAS. APART CR. TO CR. WATERTIGHT. -30 CENTRE DIVISION 2R 51/4" FRAMES SPACED 31" APART 27" FORWARD 3/5 LENGTH FORWARD 24" IN FORE & AFT PEAKS. DEEP x "48 WITH 3" FLANGE. STIFFENERS ON ALTERNATE 43" LAP TO BEAM. MAIN SIDE FRAMES ABAFT 1/2 LENGTH FORWARD CLEAR OF TUNNEL RECESS & PEAK TANKS FRS. DOUBLE AND SCHEME OF WELDING. 12-78 RIVS. IN EACH ARM. 12" x 31/2" x 9/16" B.A. ON EVERY FRAME TO SECOND DECK EXTENDED TO UPPER DECK IN WAY BRACKETED TOP AND FRAMES 153-161. SEE BUTTS OF SHELL PLATING OF HATCH END STRONG BEAMS WITH TWEEN DECK FRAMES 6"x 31/2"x 7/6" B.A. SCARPHED BOTTOM AT HATCH ENDS SKETCH OF KNEE ON PROFILE BUTTS OF DECK PLATING. TO MAIN FRAMES AT SECOND DECK AND CARRIED TO UPPER DECK ON EVERY FRAME. FOR SCANTLINGS SEE BUTTS OF TANK TOP PLATING. AND DECK PLANS. ALL BUTTS VEE MAIN SIDE FRAMES IN WAY OF TUNNEL RECESS 10" x 31/2" x 1/2" B.A. ON EVERY FRAME TO H OUT PROFILE & DECK PLAN. BUTTS OF CENTRE GIRDER AND MARGIN PLATES WELDED WITH SECOND DECK WITH 6"x 31/2" x 7/16" B.A. TWEEN DECK FRAMES. BUTTS OF W.T. BULKHEADS BACK RUN. MAIN SIDE FRAMES FORWARD 1/2 LENGTH FORWARD CLEAR OF DEEP FRAMING 12"x 31/2"x 9/16" B.A. WITH 78" x "62 FOR 1/2 LENGTH Q TO "46 BUTTS OF TUNNEL PLATING. 4"x4"x"50 ON ALTERNATE FRS. TO SECOND DECK WITH 6"x 31/2" x 7/6" B.A. TWEEN DECK FRAMES. AT ENDS. BUTTS WELDED. VENTILATOR COAMINGS TO DECK AND COAMINGS. MAIN SIDE FRAMES IN WAY OF DEEP FRAMING FORWARD 10% ABAFT RULE POSITION OF COLLISION BULKHEAD (SEE PROFILE & DECK PLAN) 12" x 31/2" x 9/16" B.A. WITH 6" x 6" x REV. BAR (14" GIRDER) ON EVERY FRAME TO SECOND DECK WITH TWEEN DECK FRS. 8"x 31/2" x 35 BA. STEM. OF FLANGED PLATES TO SUIT PLANING SHOE SEE PROFILE. SCARPHED TO MAIN FRAMES AT SECOND DECK AND CARRIED TO UPPER DECK ON EVERY STERNPOST. CAST STEEL WITH 5 GUDGEONS. LINERS FITTED IN WAY OF OUTSIDE FRAME AND TO FORECASTLE DECK ON EVERY FRAME. STRAKES AT WATERTIGHT BULKHEADS. FRAMES IN FORE & AFT PEAK TANKS 8"x 31/2"x "35 B.A. TO UPPER AND FORECASTLE DECKS RUDDER. WELDED DOUBLE PLATES 5/8 AND 1" BROAD LINERS FITTED AT FORE AND FRAMES IN TWEEN DECK PERMANENT BUNKERS 8" x 31/2" x 716" B.A. STOCK 11/2" DIA. CAST STEEL (RULE 11") AFTER PEAK BULKHEADS AND BULKHEAD 2R 51/4" FRAMES IN BOILER ROOM 12"x 31/2"x 9/16" B.A. WITH 4"x 4"x"50 REV. BAR ON FRS. 77,79,81 &83 TOP GUDGEON CAST STEEL. DIVIDING THE FORWARD HOLD. OTHER GUDGEONS MILD STEEL. DOUBLE BOTTOM. FLOOR PLATES "42 THROUGHOUT IN HOLDS AND ENGINE SPACE - "52 IN BOILER SPACE. WATERTIGHT FLOORS 42 + 88 = 150 WITH STIFFENERS 6"x 31/2"x 1375 O.A. SPACED 30" APART. FOR OVERFLOW 36'-O" ABOVE TANK TOP. GIN 23 FEB. 1942 781/2" × "G2 FOR 1/2 LENGTH ₩ TO "46 CENTRE GIRDER. AT ENDS. BUTTS WELDED. DOUBLE BOTTOM PLATING ARRANGED FOR CARRYING OIL FUEL. 43/4" × "54 FOR 1/2 LENGTH W "46 AT ENDS IN WAY OF HATCHES, TANK TOP PLATING INCREASED "08 IN LIEU OF CEILING. "G2 IN BOILER SPACE. ALL BUTTS WELDED INNER BOTTOM PLATING "44 FOR 1/2 LENGTH DE TO "40 AT ENDS "52 IN E.S. MARGIN PLATE 431/2" MOULDED x "54 - "60 IN B.S. (RULE 39") VERTICAL ANGLES 31/2"x 31/2"x "437 SINGLE. 58 IN B.S. BUTTS WELDED . SEAMS LAPPED AND 2R. 4" x 4" x 1/2" IN B.S. 6" x 6" x 1/2" SINGLE ALL BUTTS WELDED. INNER BOTTOM PLATING ITTHE UNDER ENGINES (2 PLATES) UNDER ENGINE SPACE AND THRUST SEE PROFILE FOR "58 SHELL TANK TOP CENTRE STRAKE 82"x "50 FOR 1/2 LENGTH TO "43 AT ENDS SEATING 6"x 6" x 9/16" UNDER BOILER BEARERS. RULE 53" x ".52 TO ".44 INCREASED IN WAY OF HATCHES ".52 IN E.S. ".58 IN B.S. ALL BUTTS WELDED. IN LIEU OF SIDE STRINGERS WING BRACKETS 44 - 54 IN B.S. 2R 51/4" BOSS PLATE ROLLED AND MARGIN CONNECTION 6/2"x6/2"x "625 TEE BAR "625 IN B.S. TANK TOP NOT COATED WITH ANY MATERIAL. WELDED .62. WITH 18-78" RIVETS EACH FLANGE AND 24"x"42 CONTINUOUS SEE PROFILE WHERE WATERTIGHT. GUSSET PLATE - "52 IN B.S. WITH G-78" RIVETS TO BRACKET CENTRE GIRDER TOP ANGLES 4"× 4"× 1/2" IN WAY OF DEEP FRAMING (SEE PROFILE) 61/21 × 61/2 × 1625 TEE BAR DISPOSITION OF FLOORS. FORE & AFT AND 4" x 4" x "56 B.S. WITH 18-7/8" RIVETS EACH FLANGE AND 24" x ".42 CONTINUOUS GUSSET PLATE WITH 5- 7/8" RIVETS TO BRACKET AND 5-7/8" RIVETS IN G" x 31/2" x "50 BACK BAR. SOLID FLOORS ON EVERY FRAME IN ENGINE SPACE AND FORWARD F CLINKER 3/5 LENGTH FORWARD UNDER BOILER BEARERS, PARTIAL SOLID UNDER ELSEWHERE SOLID FLOORS ON EVERY THIRD FRAME, BRACKET FLOORS INTERMEDIATE. 801/2" x "62 FOR 1/2 LENGTH 0 TO "46 SEE PROFILE FOR STRENGTHENED FLOORS IN WAY OF WATERTIGHT BULKHEADS AT ENDS. BUTTS WELDED. TO M.S. REQUIREMENTS. CEMENT. 12-0" TO INTERCOSTAL GIRDER. 13- 18 RIVETS 20 - 18 RIVETS DOUBLE REVERSE CARRIED 6 BEYOND 12-0" IN WAY OF DEEP FRAMING. GIRDER P&S IN WAY OF ENGINES. GUSSET PLATE DIRECT DOUBLE UNDER ENGINES 4"× 4"×".50 WELD TO MARGIN. 2R. 51/4" MARGIN SHELL ANGLE 4" × 4" × "50 FORE AND AFT REVERSE FRAME 6" x 31/2" x 716" B.A. " 190" A N.BS. 716" "IN B.S. 16-4 RIVETS. 6"x6"x1/2 UNDER. 6-3/4 RIVETS. AIR HOLES 78" DIA. ON 3" DIA. 4-3/4 RIVETS 6-3/4 RIVETS / \31/2" x 31/2" x ".437 1.42 E OUT 4"×4"×1/2" B.S. 18 DIA AIR HOLE. 6" × 31/2" × 716 B.A. INTERC PLATE "38 IN HOLDS (16"x 12" 781/2" x "63 FOR 1/2 LENGTH Q TO "50 23"×15" 23"×15" 23"x 15" 23"× 15" 23"×15" 43 IN B.S. 23"×15" "42 IN E.S. "52 IN B.S. AT ENDS. BUTTS WELDED. .52 IN B.S. 4-3/4 RIVETS. 6-3/4" RIVETS. 31/2" x 31/2" x "437 6-3/4" RIVETS. DRAIN HOLES 14x 18 ".52 IN B.S. 3/4" RIYETS 10000 FRAME 6" x 31/2" CLOSE TO HEEL. RADIUS OF BILGE 3'-9" × 7/16" B.A. N.B.S. 9, 4 4 4 13/4" x 78" DRAIN HOLE. BRACKETS TO FRAMES FITTED WITH BILGE KEEL 61/2" x 61/2" x "G25 TEE BAR 7/8" RIVETS IN BOILER SPACE. KEEL ANGLES 4" x 4" x 9/16" WITH 10" x "50 BULB PLATE FRAMES G8 - III. FOR 1/2 LENGTH W TO "50 AT ENDS. KEEL OUT INSIDE TANK MARGIN LUGS TO FLOOR B OUT DIN C CLINKER PLATES COUNTERSUNK FOR RIVET POINTS. 52"x " 78 FOR 3/5 LENGTH ₩ TO 78"x "63 FOR 1/2 LENGTH 0 TO "50 691/2" x "63 FOR 1/2 LENGTH W TO "50 69/2" x "63 FOR /2 LENGTH 00 TO 50 691/2" x "63 FOR 1/2 LENGTH \$\tilde{\text{M}}\$ TO "50 -68 AT ENDS. BUTTS WELDED. AT ENDS. BUTTS WELDED. AT ENDS. BUTTS WELDED. AT ENDS. BUTTS "WELDED. AT ENDS. BUTTS WELDED. THICKNESS OF BOTTOM SHELL PLATING FROM FORWARD HALF LENGTH. FORWARD TO RULE POSITION OF COLLISION BULKHEAD ".63+10% = 1.69

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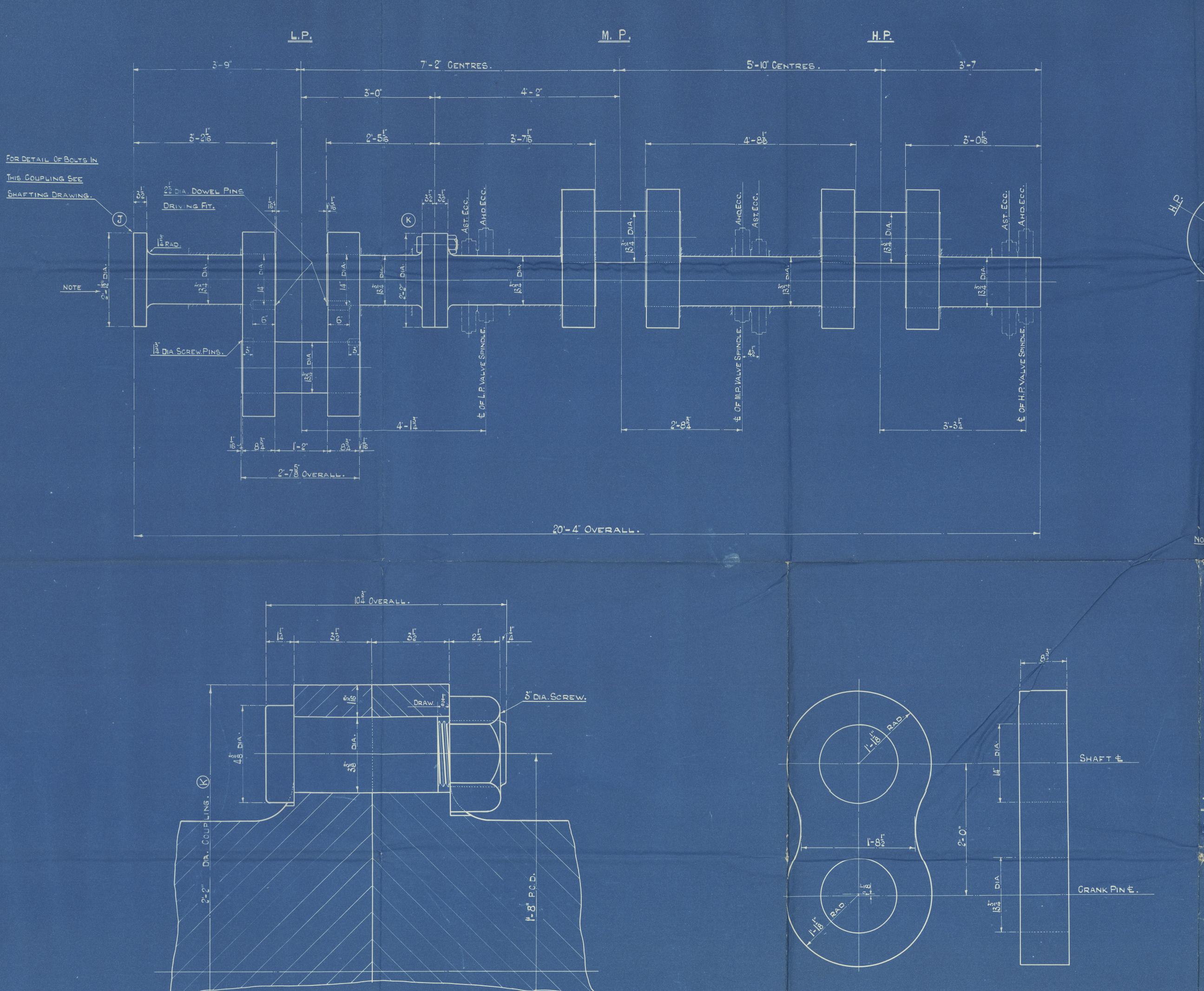
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SCALE: 6" = ONE FOOT.

DETAIL OF COUPLING. (K)

6 BOLTS IN COUPLING.

SCALE : 12 = ONE FOOT

DETAIL OF WEBS.

L.P.
48' STROKE.

LOOKING FORWARD.

NOTE: ALL COUPLING BOLT HOLES TO BE

BORED ACCURATELY ON GIVEN PITCH

WITH 2 HOLES ON GRANK PIN &

AS SHOWN.

-- NOTE:-

GRANK SHAFT, PINS & WEBS ALL OF
FORGED INGOT STEEL.

TO PASS LLOYDS SURVEY,

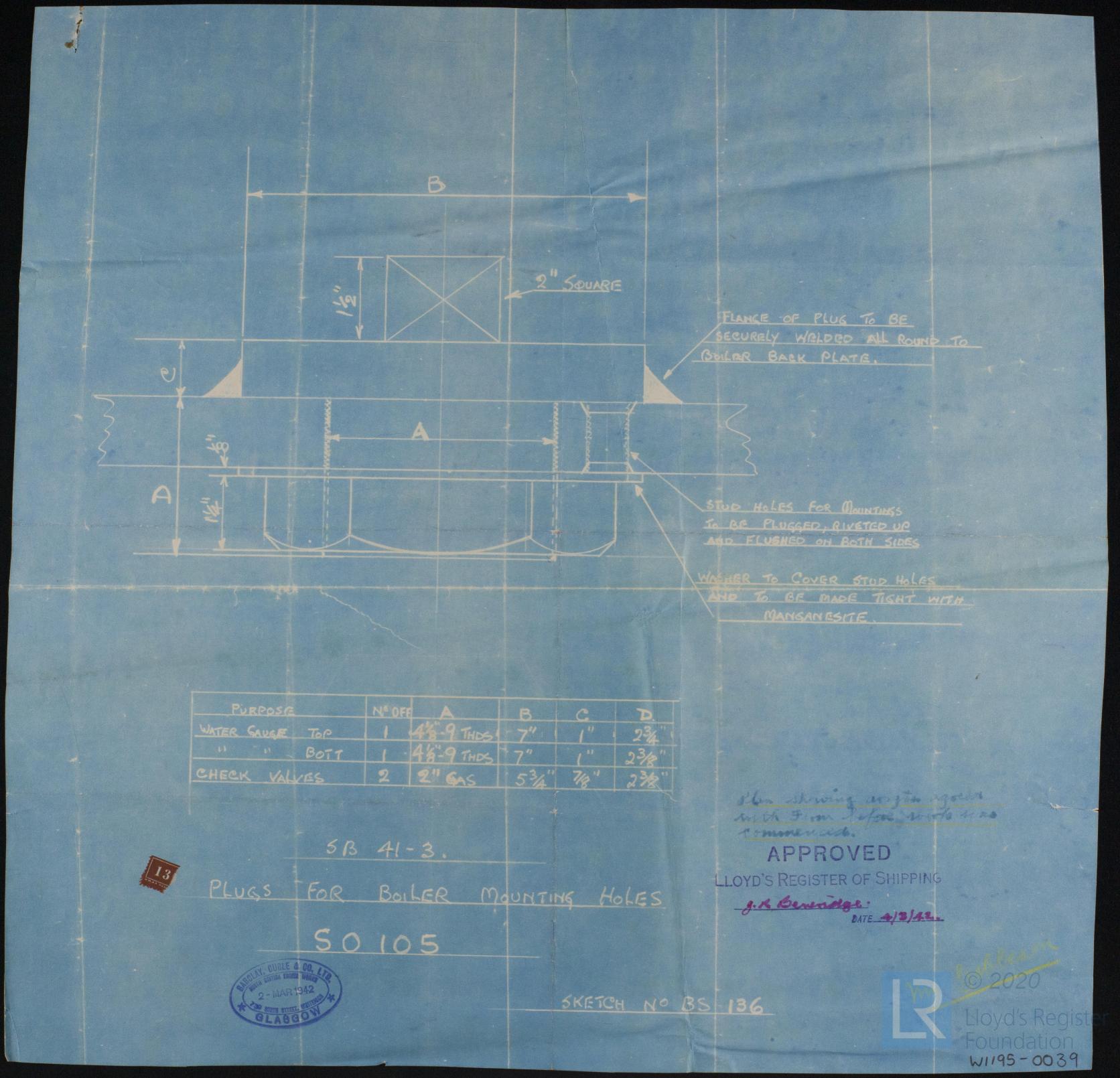
SCALE: 1" = ONE FOOT & AS MARKED.

CRANK SHAFT.

S. S. ENG. N° S. E.W 133 4 EW 134

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